

PTFE

fluteck[™] P series



— SIZE LIST

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Virgin PTFE extruded rods

Metric sizes

O.D. (mm)	O.D. Tolerance ⁽¹⁾	Standard Length (mm)	Length Tolerance ⁽¹⁾
4	+0.60 -0.00 mm	1000 2000 3000	+2.0% - 0.0%
5	+0.60 -0.00 mm		
6	+0.60 -0.00 mm		
7	+0.60 -0.00 mm		
8	+0.60 -0.00 mm		
9	+0.60 -0.00 mm		
10	+6.0 -0.0 %		
11	+6.0 -0.0 %		
12	+6.0 -0.0 %		
13	+6.0 -0.0 %		
14	+6.0 -0.0 %		
15	+6.0 -0.0 %		
16	+6.0 -0.0 %		
17	+6.0 -0.0 %		
18	+6.0 -0.0 %		
19	+6.0 -0.0 %		
20	+6.0 -0.0 %		
22	+6.0 -0.0 %		
25	+6.0 -0.0 %		
28	+6.0 -0.0 %		
30	+6.0 -0.0 %		
32	+6.0 -0.0 %		
38	+6.0 -0.0 %		
40	+6.0 -0.0 %		
42	+6.0 -0.0 %		
45	+6.0 -0.0 %		
50	+6.0 -0.0 %		
55	+6.0 -0.0 %		
60	+6.0 -0.0 %		
65	+6.0 -0.0 %		
70	+6.0 -0.0 %		
75	+6.0 -0.0 %		
80	+6.0 -0.0 %		
85	+6.0 -0.0 %		
90	+6.0 -0.0 %		
100	+6.0 -0.0 %		
110	+6.0 -0.0 %	1000 2000	
120	+6.0 -0.0 %	1000	
130	+6.0 -0.0 %		
140	+6.0 -0.0 %		
150	+6.0 -0.0 %		
160	+6.0 -0.0 %		

(1) According to ISO 13000 standard and to corporate standard specifications

Virgin PTFE extruded rods

Imperial sizes

O.D. (inch)	O.D. Tolerance ⁽¹⁾	Standard Length (inch)	Length Tolerance ⁽¹⁾
* .187"	+.002" - 0"	6 ft 12 ft	+2.0% - .0%
* .250"	+.002" - 0"		
* .312"	+.002" - 0"		
* .375"	+.002" - 0"		
* .415"	+.002" - 0"		
* .437"	+.002" - 0"		
* .447"	+.002" - 0"		
* .465"	+.002" - 0"		
* .485"	+.002" - 0"		
* .500"	+.002" - 0"		
* .562"	+.002" - 0"		
* .625"	+.002" - 0"		
* .750"	+.002" - 0"		
* .758"	+.002" - 0"		
* .773"	+.002" - 0"		
* .812"	+.002" - 0"		
* .825"	+.002" - 0"		
* .875"	+.002" - 0"		
* .880"	+.002" - 0"		
* .898"	+.002" - 0"		
* 1.000"	+.002" - 0"		
* 1.010"	+.005" - 0"		
* 1.125"	+.005" - 0"		
* 1.250"	+.005" - 0"		
* 1.375"	+.005" - 0"		
* 1.500"	+.005" - 0"		
* 1.625"	+.010" - 0"		
* 1.750"	+.010" - 0"		
* 2.000"	+.010" - 0"		
2.125"	+4% -0	6 ft	
2.250"	+4% -0		
2.375"	+4% -0		
2.500"	+4% -0		
2.625"	+4% -0		
2.750"	+4% -0		
2.875"	+4% -0		
3.000"	+4% -0		
3.125"	+4% -0		
3.250"	+4% -0		
3.500"	+4% -0		
3.750"	+4% -0		
4.000"	+4% -0		
4.125"	+4% -0		

**Additionally
Standard materials
On request**

Precision ground rods available on request
Virgin PTFE, standard compounds
Custom sizes and special compounds

(1) According to ISO 13000 standard and to corporate standard specifications

*Precision ground

Virgin PTFE extruded tubes

Metric sizes

O.D. (mm)			I.D. (mm)								Tolerance ⁽¹⁾	Length (mm)
10	4	5	-	-	-	-	-	-	-	-	O.D. +6.0% - 0.0% I.D. +6.0% - 0.0% Length +2.0% - 0.0%	1000 2000
11	4	5	6	8	-	-	-	-	-	-		
12	5	6	7	8	-	-	-	-	-	-		
13	5	6	7	8	-	-	-	-	-	-		
14	5	6	8	9	-	-	-	-	-	-		
15	4	5	6	8	10	12	-	-	-	-		
16	5	6	8	10	12	-	-	-	-	-		
17	5	6	8	10	12	-	-	-	-	-		
18	8	10	11	12	13	14	-	-	-	-		
19	5	6	8	10	12	14	-	-	-	-		
20	6	8	10	12	14	15	-	-	-	-		
21	6	8	10	12	14	15	-	-	-	-		
22	7	13	14	15	16	-	-	-	-	-		
23	6	8	10	12	14	15	16	-	-	-		
24	10	12	15	17	-	-	-	-	-	-		
25	14	15	16	18	-	-	-	-	-	-		
26	8	10	12	14	15	16	18	-	-	-		
27	14	18	20	-	-	-	-	-	-	-		
28	10	12	15	17	18	20	22	-	-	-		
29	8	10	12	15	18	20	22	-	-	-		
30	17	21	24	25	-	-	-	-	-	-		
31	8	10	12	14	18	20	22	24	25	-		
32	10	12	15	18	20	22	24	25	28	-		
33	19	23	24	25	26	-	-	-	-	-		
34	24	26	28	30	-	-	-	-	-	-		
35	10	12	15	18	20	22	25	28	30	-		
38	20	22	25	28	30	32	34	-	-	-		
40	10	12	15	18	20	25	28	30	32	-		
42	12	15	20	25	28	30	32	35	-	-		
45	10	12	15	18	20	25	28	30	35	38		
48	15	28	30	35	38	40	42	-	-	-		
50	15	20	25	28	30	32	35	38	40	42		
52	28	30	32	38	40	-	-	-	-	-		
55	20	25	28	30	32	35	40	45	-	-		
58	34	42	45	48	50	-	-	-	-	-		
60	20	25	30	35	40	45	50	-	-	-		
65	20	25	30	35	40	45	50	55	-	-		
70	20	25	30	35	40	45	50	55	60	-		
75	20	25	30	35	40	45	50	55	60	65		
80	40	45	50	55	60	65	70	-	-	-		
85	40	45	50	55	60	65	70	75	-	-		
90	45	50	60	65	70	75	80	-	-	-		
95	45	50	55	60	70	75	80	85	-	-		
100	50	60	65	70	75	75	80	85	90	-		
105	80	85	90	95	100	-	-	-	-	-	1000	
110	80	85	90	95	100	105	-	-	-	-		
115	90	95	100	105	110	-	-	-	-	-		
120	90	95	100	105	110	115	-	-	-	-		
125	80	85	90	95	100	-	-	-	-	-		
130	100	105	110	115	120	-	-	-	-	-		
140	100	110	115	120	130	-	-	-	-	-		
150	125	140	-	-	-	-	-	-	-	-		

(1) According to ISO 13000 standard and to corporate standard specifications

Virgin PTFE extruded tubes

Imperial sizes

O.D. (inch)		I.D. (inch)					Tolerance ⁽¹⁾	Length (inch)
*.373"	+0.002" - 0"	.249"	-	-	-	-	-0.02" + 0"	6 ft 12 ft
*.492"	+0.002" - 0"	.254"	-	-	-	-	-0.02" + 0"	
*.5615"	+0.002" - 0"	.4365"	.3135"	.2361"	-	-	-0.02" + 0"	
*.625"	+0.002" - 0"	.500"	.3735"	.250"	-	-	-0.02" + 0"	
*.687"	+0.002" - 0"	.438"	.423"	-	-	-	-0.02" + 0"	
*.750"	+0.002" - 0"	.645"	.625"	.5475"	.500"	-	-0.02" + 0"	
*.784"	+0.002" - 0"	.548"	-	-	-	-	-0.02" + 0"	
*.842"	+0.002" - 0"	.590"	-	-	-	-	-0.04" + 0"	
*.874"	+0.002" - 0"	.626"	.500"	.4725"	-	-	-0.04" + 0"	
*.9375"	+0.002" - 0"	.7075"	.625"	.500"	-	-	-0.04" + 0"	
*1.000"	+0.002" - 0"	.625"	.500"	.375"	-	-	-0.04" + 0"	
*1.050"	+0.005" - 0"	.8912"	.7075"	.625"	.500"	-	-0.04" + 0"	
*1.0625"	+0.005" - 0"	.4725"	.7085"	-	-	-	-0.04" + 0"	
*1.125"	+0.005" - 0"	.8662"	.750"	.7025"	.500"	-	-0.04" + 0"	
*1.187"	+0.005" - 0"	.866"	.7875"	.7625"	.70875"	-	-0.06" + 0"	
*1.250"	+0.005" - 0"	1.000"	.866"	.750"	.625"	.500"	-0.06" + 0"	
*1.3125"	+0.005" - 0"	1.050"	1.000"	.750"	-	-	-0.06" + 0"	
*1.375"	+0.005" - 0"	1.125"	1.100"	1.000"	.6875"	-	-0.06" + 0"	
*1.435"	+0.005" - 0"	1.180"	1.105"	1.000"	.866"	-	-0.06" + 0"	
*1.500"	+0.005" - 0"	1.375"	1.300"	1.105"	1.000"	.866"	-0.06" + 0"	
*1.562"	+0.010" - 0"	1.250"	1.1875"	-	-	-	-0.06" + 0"	
*1.575"	+0.010" - 0"	1.180"	-	-	-	-	-0.06" + 0"	
*1.625"	+0.010" - 0"	1.260"	-	-	-	-	-0.06" + 0"	
*1.750"	+0.010" - 0"	1.500"	1.4175"	1.250"	1.125"	1.000"	-0.06" + 0"	
*1.7715"	+0.010" - 0"	0.9845"	-	-	-	-	-0.06" + 0"	
*1.8115"	+0.010" - 0"	1.400"	-	-	-	-	-0.06" + 0"	
*1.875"	+0.010" - 0"	1.500"	1.250"	-	-	-	-0.06" + 0"	
*1.935"	+0.010" - 0"	1.575"	1.500"	1.40"	1.1875"	-	-0.06" + 0"	
*2.000"	+0.010" - 0"	1.750"	1.625"	1.50"	1.2500"	1.000"	-0.08" + 0"	
2.065"	+4% - 0	1.575"	-	-	-	-	-0.08" + 0"	6 ft
2.125"	+4% - 0	1.835"	-	-	-	-	-0.08" + 0"	
2.155"	+4% - 0	1.7725"	-	-	-	-	-0.08" + 0"	
2.250"	+4% - 0	1.8575"	1.750"	1.625"	1.500"	1.250"	-0.08" + 0"	
2.3625"	+4% - 0	2.000"	1.9685"	1.7715"	-	-	-0.08" + 0"	
2.375"	+4% - 0	2.1075"	1.935"	1.750"	1.500"	-	-0.08" + 0"	
2.500"	+4% - 0	2.235"	2.000"	1.875"	1.250"	-	-0.08" + 0"	
2.559"	+4% - 0	1.7715"	-	-	-	-	-0.08" + 0"	
2.750"	+4% - 0	2.365"	2.000"	-	-	-	-0.08" + 0"	
2.937"	+4% - 0	3.543"	-	-	-	-	-0.08" + 0"	
3.000"	+4% - 0	2.5985"	2.480"	2.365"	2.245"	2.000"	-0.08" + 0"	
3.250"	+4% - 0	2.6375"	2.245"	-	-	-	-0.08" + 0"	
3.3465"	+4% - 0	2.9525"	2.755"	-	-	-	-0.08" + 0"	
3.5435"	+4% - 0	2.9525"	-	-	-	-	-0.08" + 0"	
3.740"	+4% - 0	3.3465"	2.9525"	-	-	-	-0.08" + 0"	
4.000"	+4% - 0	3.500"	3.000"	2.000"	-	-	-4" + 0"	
5.000"	+4% - 0	4.000"	-	-	-	-	-4" + 0"	
5.2685"	+4% - 0	4.850"	-	-	-	-	-4" + 0"	
6.000"	+4% - 0	4.500"	-	-	-	-	-4" + 0"	

Standard materials

Virgin PTFE, standard compounds

On request

Custom sizes and special compounds

(1) According to ISO 13000 standard and to corporate standard specifications

*Precision ground

Virgin PTFE molded rods

Metric sizes

ø (mm)	Tolerance ⁽¹⁾	Length (mm)	ø (mm)	Tolerance ⁽¹⁾	Length (mm)
30	+6.0% - 0.0%	150	245	+6.0% - 0.0%	100 150 200 250 300
35	+6.0% - 0.0%	150 200 250	250	+6.0% - 0.0%	
40	+6.0% - 0.0%		255	+6.0% - 0.0%	
45	+6.0% - 0.0%		260	+6.0% - 0.0%	
50	+6.0% - 0.0%	100 150 200 250 300	265	+6.0% - 0.0%	
55	+6.0% - 0.0%		270	+6.0% - 0.0%	
60	+6.0% - 0.0%		280	+6.0% - 0.0%	
65	+6.0% - 0.0%		285	+6.0% - 0.0%	
70	+6.0% - 0.0%		290	+6.0% - 0.0%	
75	+6.0% - 0.0%		300	+6.0% - 0.0%	
80	+6.0% - 0.0%		310	+6.0% - 0.0%	
85	+6.0% - 0.0%		315	+6.0% - 0.0%	
90	+6.0% - 0.0%		320	+6.0% - 0.0%	
95	+6.0% - 0.0%		330	+6.0% - 0.0%	
100	+6.0% - 0.0%		335	+6.0% - 0.0%	
105	+6.0% - 0.0%		340	+6.0% - 0.0%	
110	+6.0% - 0.0%		345	+6.0% - 0.0%	
115	+6.0% - 0.0%		350	+6.0% - 0.0%	
120	+6.0% - 0.0%		365	+6.0% - 0.0%	50 100 150 200
125	+6.0% - 0.0%	100 150 200 250 300	380	+6.0% - 0.0%	
130	+6.0% - 0.0%		395	+6.0% - 0.0%	
135	+6.0% - 0.0%		400	+6.0% - 0.0%	
140	+6.0% - 0.0%		410	+6.0% - 0.0%	
145	+6.0% - 0.0%		420	+6.0% - 0.0%	
150	+6.0% - 0.0%		435	+6.0% - 0.0%	
155	+6.0% - 0.0%		450	+6.0% - 0.0%	
160	+6.0% - 0.0%		460	+6.0% - 0.0%	
165	+6.0% - 0.0%		470	+6.0% - 0.0%	
170	+6.0% - 0.0%		480	+6.0% - 0.0%	
175	+6.0% - 0.0%		500	+6.0% - 0.0%	
180	+6.0% - 0.0%		525	+6.0% - 0.0%	
185	+6.0% - 0.0%		540	+6.0% - 0.0%	
190	+6.0% - 0.0%		560	+6.0% - 0.0%	
195	+6.0% - 0.0%		685	+6.0% - 0.0%	50 80 100
200	+6.0% - 0.0%		600	+6.0% - 0.0%	
205	+6.0% - 0.0%		620	+6.0% - 0.0%	
210	+6.0% - 0.0%		635	+6.0% - 0.0%	
215	+6.0% - 0.0%		650	+6.0% - 0.0%	
220	+6.0% - 0.0%		690	+6.0% - 0.0%	
225	+6.0% - 0.0%		700	+6.0% - 0.0%	
230	+6.0% - 0.0%		720	+6.0% - 0.0%	
235	+6.0% - 0.0%		750	+6.0% - 0.0%	
240	+6.0% - 0.0%		770	+6.0% - 0.0%	

(1) According to ISO 13000 standard and to corporate standard specifications

Virgin PTFE molded rods

Imperial sizes

ø (inch)	Tolerance ⁽¹⁾	Length (inch)	ø (inch)	Tolerance ⁽¹⁾	Length (inch)
1.181"	+4% - 0	6"	9.000"	+4% - 0	4" 6" 8" 10" 12"
1.250"	+4% - 0	6" 8" 10"	9.250"	+4% - 0	
1.373"	+4% - 0		9.500"	+4% - 0	
1.625"	+4% - 0		9.750"	+4% - 0	
1.750"	+4% - 0	4" 6" 8" 10" 12"	10.000"	+4% - 0	
1.870"	+4% - 0		10.250"	+4% - 0	
2.000"	+4% - 0		10.500"	+4% - 0	
2.125"	+4% - 0		10.750"	+4% - 0	
2.250"	+4% - 0		11.000"	+4% - 0	
2.375"	+4% - 0		11.250"	+4% - 0	
2.500"	+4% - 0		11.500"	+4% - 0	
2.625"	+4% - 0		11.750"	+4% - 0	
2.750"	+4% - 0		12.000"	+4% - 0	
2.875"	+4% - 0		12.250"	+4% - 0	
3.000"	+4% - 0		12.500"	+4% - 0	
3.125"	+4% - 0		13.000"	+4% - 0	
3.250"	+4% - 0		13.500"	+4% - 0	
3.500"	+4% - 0		14.000"	+4% - 0	
3.750"	+4% - 0		14.500"	+4% - 0	2" 4" 6" 8"
4.000"	+4% - 0		15.000"	+4% - 0	
4.125"	+4% - 0		15.500"	+4% - 0	
4.250"	+4% - 0		16.000"	+4% - 0	
4.500"	+4% - 0		16.500"	+4% - 0	
4.625"	+4% - 0		17.000"	+4% - 0	
4.725"	+4% - 0		17.750"	+4% - 0	
5.000"	+4% - 0		18.000"	+4% - 0	
5.250"	+4% - 0		18.875"	+4% - 0	
5.500"	+4% - 0		19.625"	+4% - 0	
5.750"	+4% - 0		20.500"	+4% - 0	
6.000"	+4% - 0		20.625"	+4% - 0	
6.250"	+4% - 0		21.250"	+4% - 0	
6.500"	+4% - 0		22.000"	+4% - 0	
6.750"	+4% - 0		23.000"	+4% - 0	
7.000"	+4% - 0	2" 3" 4"	23.625"	+4% - 0	
7.250"	+4% - 0		25.625"	+4% - 0	
7.500"	+4% - 0		27.125"	+4% - 0	
7.750"	+4% - 0		27.500"	+4% - 0	
8.000"	+4% - 0		28.000"	+4% - 0	
8.250"	+4% - 0		28.375"	+4% - 0	
8.500"	+4% - 0		29.500"	+4% - 0	
8.750"	+4% - 0		30.250"	+4% - 0	

Standard materials

Virgin PTFE, standard compounds

On request

Custom sizes and special compounds

(1) According to corporate standard specifications

Virgin PTFE molded tubes

Metric sizes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)
35	15	40	15	87.5	40	100	25	110	55	125	40	135	100
	20		20		50		27.5		57.5		42.5		105
40	15		25		60		30		60		45		110
	20		27.5		70		35		65		50		115
	25		30		15		40		70		52.5		120
45	15	75	35	90	20	100	45	110	75	125	55	140	20
	20		40		25		47.5		80		60		35
	25		45		27.5		50		82.5		65		40
	27.5		47.5		30		55		85		70		45
50	30		50		32.5		57.5		90		75		50
	15	77.5	50		35	105	60	115	95	130	77.5		55
	20		55		40		65		20		80		60
	25		60		42.5		70		25		85		65
	27.5		40		45		75		27.5		90		70
55	30	80	45	95	47.5	107.5	80	120	30	132.5	95	145	75
	35		50		50		85		35		100		80
	15		55		52.5		15		40		105		85
	20		60		55		20		45		110		90
	25	82.5	15	97.5	57.5	110	25	125	47.5	135	20	150	95
	27.5		20		60		27.5		50		25		100
	30		25		62.5		30		55		40		105
	32.5		27.5		65		35		60		45		110
60	35	85	30	100	67.5	115	40	125	65	135	50	150	115
	40		35		70		45		67.5		55		120
	15		40		72.5		50		70		60		125
	20		45		75		55		72.5		65		130
	25	87.5	50	105	15	110	57.5	120	75	130	70	140	135
	27.5		52.5		20		60		80		75		140
	30		55		25		65		82.5		80		145
	32.5		60		27.5		70		85		85		150
65	35	90	65	110	30	120	75	130	90	140	90	150	155
	40		70		80		80		95		95		160
	42.5		72.5		82.5		82.5		100		100		165
	45		75		85		85		105		105		170
	15	92.5	55	115	50	125	60	135	110	145	110	155	175
	20		60		52.5		62.5		115		115		180
	25		65		55		65		120		120		185
	27.5		70		57.5		70		125		125		190
70	30	95	75	120	80	130	80	140	130	150	130	160	195
	32.5		80		82.5		82.5		135		135		200
	35		82.5		85		85		140		140		205
	37.5		85		87.5		87.5		145		145		210
	15	97.5	80	125	82.5	135	82.5	145	140	155	140	165	215
	20		85		85		85		145		145		220
	25		90		90		90		150		150		225
	27.5		92.5		92.5		92.5		155		155		230

Virgin PTFE molded tubes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)
150	90	165	60	175	155	190	110	200	180	215	160	230	125
	95		70		160		115		185		165		135
	100		75	180	30		120	205	80		170		140
	105		80		40		125		85		175		145
	110		85		50		130		100		180		150
	115		90		60		135		105		185		155
	120		95		70		140		110		190		160
	125		100		80		145		115		195		165
	130		105		85		150		120		200		170
	135		110		90		155		125		205		175
155	25		115	180	95		160	205	130		70		180
	40		120		100		165		135		80		185
	50		125		105		170		140		90		190
	55		130		110		175		145		100		195
	60		135		115	195	65		150	220	110		200
	65		140		120		80		155		115		205
	70		145		125		100		160		125		210
	75		150		130		105		165		130		215
	80	170	40		135		115		170		135	235	110
	85		50		140		120		175		140		115
	90		60		145		125		180		145		120
	95		70		150		130		185		150		125
	100		80		155		135	210	190		155		130
	105		90		160		140		70		160		135
	110		95		165		145		80		165		140
	115		100	185	60		150		90		170		145
160	120		105		65		155		95	225	175		150
	125		110		70		160		100		180		155
	130		115		75		165		115		185		160
	135		120		80		170		125		190		165
	140		125		85		175		130		195		170
	40		130		90		180	215	135		200	240	175
	50		135		100	200	50		140		205		180
	55		140		105		60		145		110		185
	60		145		110		70		150		120		190
	65		150		115		75		155		125		195
	70		155		120		80		160		130		200
	75	175	55		125		90		165	230	135		205
	80		60		130		95		170		140		210
	85		65		135		100		175		145		215
	90		70		140		105		180		150		220
	95		75		145		110		185		155		225
	100		80		150		115	210	190		160		230
	105		85		155		120		195		165		235
	110		90		160		125		200		170		240
	115		95		165		130		205		175		245
165	120		100	190	40		140		90	230	180		250
	125		105		45		145		95		185		255
	130		110		50		150		100		190		260
	135		115		55		155		105		195		265
	140		120		60		160		110		200		270
	145		125		65		165		115		205		275
	150		130		70		170		120		210		280
	155		135		75		175		125		215		285
	35		140		80	190	180		130		220		290
	40		145		85		185		135		225		295

Virgin PTFE molded tubes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)
240	215	255	205	270	160	280	255	300	185	310	255	330	260
	220		210		170		260		190		260		275
	222.5		215		175		265		195		265		280
	225		220		185		145		200		270		285
245	150	255	222.5	270	190	285	160	300	205	315	275	332.5	290
	155		225		195		165		210		280		295
	165		230		200		185		215		285		300
	170		235		205		190		220		290		305
	175	260	240	275	210	290	210	305	222.5	320	195	340	310
	180		110		215		215		225		200		315
	185		135		220		220		230		222.5		222.5
	190		140		222.5		222.5		235		230		235
	195		145		225		230		240		240		245
	200		150		230		235		245		245		250
	205		155		235		240		250		250		255
	210		160		240		245		255		255		260
	215		165		245		250		260		260		270
	220		170		250		255		265		270		275
	222.5		175		255		260		270		275		280
	225		180		160		265		275		285		285
	230		185		165		270		280		290		290
			190		170		160		350		297.5		300
250	110	260	195	275	175	290	195	305	185	320	300	337.5	305
	120		200		180		200		190		180		310
	130		205		200		210		205		195		315
	140		210		205		215		210		205		245
	145	265	215	280	210	295	220	310	215	325	215	340	260
	150		220		215		222.5		220		225		270
	155		222.5		220		225		222.5		230		275
	160		225		222.5		230		230		235		290
	165		230		225		235		240		240		300
	170		235		230		240		245		245		305
	175		240		235		245		250		250		310
	180		245		240		250		255		255		320
	185	270	140		245	300	255	310	260	325	260		190
	190		145		250		260		265		270		210
	195		170		255		265		270		275		220
	200		175		260		270		275		280		240
	205	275	180	285	155	295	275	305	280	315	285	325	245
	210		185		160		100		285		290		250
	215		200		165		170		287.5		300		255
	220		205		170		175		290		305		260
	222.5		210		180		185		185		245		265
	225		215		185		190		360		260		270
	230		220		195		200		195		270		275
	235		222.5		200		222.5		200		275		280
255	150	270	225	280	210	300	250	310	205	325	280	330	285
	155		230		215		255		210		285		290
	170		235		220		260		215		290		295
	175		240		222.5		270		222.5		295		300
	180	275	245	285	230	305	275	315	225	325	297.5		305
	185		250		235		280		235		300		310
	190		130		240		150		240		305		315
	195		150		245		170		245		310		320
	200		155		250		175		250	330	245		325

Virgin PTFE molded tubes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)
345	195	360	330	380	350		320		355		420	490	430
	215		332.5		355		325		365		425		435
	220		335		360		330		375		430		445
	235		340		365		340		380		435		455
	240		345		260		345		390		440		460
	250	365	250	390	275	410	355	440	395	465	445		465
	255		255		280		360		400		450		470
	260		275		290		365		405		355		472.5
	265		290		295		370		410	475	365	500	385
	270		300		300		375		417.5		385		400
	280		310		310		380		420		390		410
	285		320		320		385		425		395		420
	290		325		325	415	390	450	300		400		435
	295		330		330		395		320		410		440
	300		340		335		330		340		420		445
	305		342.5		340		340		350		435		450
	310		345		345		350		355		445		455
	315		350		350		375		365		455		460
	320		245		355		380		380	480	340		465
	325		255		360		385		390		355		470
	330		260		365		390		395		360		475
350	200		275		372.5		395		400		365		477.5
	210	370	280	395	255	422.5	400		405		390		480
	230		290		290		330		410		395		482.5
	235		295		300		340		415		410		485
	245		300		310		355		420		420	512.5	420
	250		310		325		365		425		425		435
	255		320		330		375		427.5		430		455
	260		325		335		390		430		435		470
	265		330		340	425	400	460	320		440		485
	270		335		350		405		340		445		495
	275		340		355		310		355	485	450	515	390
	280		345		360		325		365		455		410
	290		347.5		365		340		375		460		435
	295		352.5		370		355		385		465		445
	300		355		375		365		390		355		455
	305	380	230		380		375		395		360		460
	310		250	405	295		390		400		365		465
	315		255		300		397.5		410		385		470
	320		260		315	437.5	400		415		390		475
	325		265		320		405		420		405		480
	330		275		325		410		425		410		485
	335		280		330		340		430		420		495
360	220		290		335	440	355	465	435	490	430	527.5	435
	260		295		340		365		440		455		455
	275		300		345		375		445		460		470
	280		305		355		390		340		465		485
	290		310		360		400		355		470		495
	295		315		365	440	405		365		360	530	500
	300		320		370		410		385		385		505
	305		325		375		420		390		400		515.5
	310		330		390		300		395		410		390
	315		335	410	270		320		400		415		410
	320		340		295		340		410		420		415
	325		345		300		345		415		425		435

Virgin PTFE molded tubes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)
530	455	570	455	610	560	655	505	695	677.5	750	715	852.5	765
	460		460		570		570	700	550		730		795
	470		470		575		580		580	760	620		815
	475		475		580		585		600		655	860	730
	480		495		582.5		590		615		710		750
	485		505		585		595		630		720		765
	490		515		590		600		635		730		785
	495		520	620	490		605		650		735		795
	500		530		505		615		665	770	740		815
	505		535		515		620		670		655	867.5	795
	510		540		520		630		675		690		815
	515		545		540		635		680		710		830
540	390		550		550	670	540	715	707.5		715	880	730
	410	580	495		560		550		635	770	730		795
	420		515		570		580		655		740		810
	425		520		580		585		680		742.5		815
	435		540		585		600		680		745		825
	455		550		590		605		605		750		830
	470		560		595		620		620	790	650		835
	485		565		605		630		680		670		860
	495	590	485	627.5	570		635	720	690		690	895	765
	505		495		585		640		605		700		795
	510		505		595		650		635		710		815
	515		515		605	680	550		655		715		830
	520		520		637.5		585		670		730		850
	435		530		550		600		680		735	900	880
	455		540		560		605		690		740		830
	470		550		570		615		695		750		840
545	485	590	560		580		620		700	730	760		845
	495		565		585		630		605		765		850
	505		570		590		635		635		770		860
	510		454		595		640	740	655		785	915	875
	515		470		600		650		680	815	700		880
	520		475		605		660		690		710		795
	522.5	600	485		530	682.5	585		710		760		815
	525		505		560		605		635		765		830
55	435		515		580		620		655		770	910	850
	455		520		585		635		680		775		860
	470		540		590		655		685		780		870
	485		550		595		690		690		785		835
	495		560		600		580		700		795	925	830
	515		565		605		600		710		800		850
	520	610	570		610		615	695	715	750	730		880
	455		585		615		620		720		815		890
	470		460		620		630		725		820		830
	495		470		585		650		655		720		850
	500		480		590		655		680		735		875
	505		485		595		660		690		740		880
	515		495		600		670		710		765		895
	520		505		605		585		620		785	930	900
560	535		515		610		605		655		790		830
	540		520		615		620		680		795		860
	542.5		530		620		635		690		800		880
	545		540		625		655		700		805		885
	570		550		630		665		710		815		900

Virgin PTFE molded tubes

O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)	O.D. (mm)	I.D. (mm)
945	830	1000	880	1050	1020	1170	1120	1320	1215	1450	1300	1760	1710
	880		920	1070	1015		1145		1235		1380	1810	1660
	900		930		1020	1200	1020	1330	1290	1520	1400		1710
	915		940	1095	1035		1060		1290		1420	1850	1760
	920		945		1035		1145	1340	1295	1570	1470		1710
	930		950		1060		1150		1145		1420		1710
950	880	1025	955	1120	830	1215	1165	1340	1290	1620	1470	1910	1800
	890		970		880		1180		1310		1520		1760
	900		910		900		1060		1320	1670	1470	1950	1800
	910	1050	985		955	1240	1145	1390	1200		1520		1850
	925		920		1020		1165		1235		1570	2010	1800
965	880	1050	925		1040	1255	1200		1300	1710	1520		1850
	885		940		1055		1185	1440	1310		1570		1900
	900		945		1060		1215		1330		1610		1850
	925		970		1075	1295	1095		1355	1760	1570		1900
	940		985		1080		1165		1370		1610		1950
	945		990		1095		1215		1390		1660		
1000	860	1005	1000	1150	1095	1295	1235	1440	1410	1760	1610		
			1005		1120		1265		1420		1660		

Virgin PTFE sheets

Metric sizes

Thickness (mm)		Thickness Tolerance ⁽¹⁾ (mm)	Width / Length Tolerance ⁽¹⁾	Standard Sizes (mm)	Additional Sizes (mm)
Skived	0.5	+10% - 0.0	+3.0% - 0.0%	600x600 1000x1000 1200x1200 1500x1500	on request
	1	+10% - 0.0			
	1.5	+10% - 0.0			
	2	+10% - 0.0			
	2.5	+10% - 0.0			
	3	+10% - 0.0			
	4.5	+10% - 0.0			
	5	+10% - 0.0			
	6	+10% - 0.0			
Molded	4	+0.75% - 0.0	+3.0% - 0.0%	600x600 1000x1000 1200x1200 1220x1220	1550x1500 2000x2000
	4.5	+0.75% - 0.0			
	5	+15% - 0.0			
	6	+15% - 0.0			
	8	+15% - 0.0			
	10	+15% - 0.0			
	12	+15% - 0.0			
	15	+15% - 0.0			
	20	+15% - 0.0			
	25	+15% - 0.0			
	30	+15% - 0.0			
	35	+15% - 0.0			
	40	+15% - 0.0			
	45	+15% - 0.0			
	50	+15% - 0.0			
	60	+15% - 0.0			
	70	+15% - 0.0			
	80	+15% - 0.0			
	90	+15% - 0.0			
	100	+15% - 0.0			
	110	+15% - 0.0			
	120	+15% - 0.0			
	130	+15% - 0.0			
	140	+15% - 0.0			
	150	+15% - 0.0			
			600x600 1220x1220	not available	
			600x600		

(1) According to corporate standard specifications

Virgin PTFE sheets

Imperial sizes

	Thickness (inch)	Thickness Tolerance ⁽¹⁾ (inch)	Width / Length Tolerance ⁽¹⁾	Standard Sizes (inch)	Additional Sizes (inch)
Skived	.031"	+ .0015" - .0015"	+3.0% - 0.0%	24" x 24" 36" x 36" 48" x 48" 60" x 60"	on request
	.062"	+ .005" - .005"			
	.093"	+ .005" - .005"			
	.125"	+ .005" - .005"			
	.187"	+ .010" - .010"			
	.250"	+ .010" - .010"			
	.187"	+ .022" - 0.11"			
	.250"	+ .030" - .015"			
	.375"	+ .038" - .019"			
Molded	.500"	+ .046" - .022"	+3.0% - 0.0%	24" x 24" 36" x 36" 48" x 48"	60" x 60"
	.625"	+ .054" - .027"			
	.750"	+ .070" - .035"			
	.875"	+ .080" - .040"			
	1.000"	+ .087" - .043"			
	1.250"	+ .102" - .051"			
	1.500"	+ .118" - .059"			
	1.625"	+ .125" - .062"			
	1.750"	+ .134" - .067"			
	1.875"	+ .142" - .070"			
	2.000"	+ .150" - .075"			
	2.250"	+10.0% - 10.0%			
	2.750"	+10.0% - 10.0%			
	3.000"	+10.0% - 10.0%		24" x 24" 48" x 48"	not available
	3.250"	+10.0% - 10.0%			
	3.500"	+10.0% - 10.0%			
	3.750"	+10.0% - 10.0%			
	4.000"	+10.0% - 10.0%			
	6.000"	+10.0% - 10.0%		24" x 24"	

Additionally
Standard materials
On request

1 or 2 sides etched, grinded
Virgin PTFE, standard compounds
Custom sizes and special compounds

(1) According to ASTM D3308 standard and to corporate standard specifications

Virgin PTFE skived films and tapes

Metric sizes

Thickness (mm)	Tolerance ⁽¹⁾ (mm)	Materials	Width (mm)
0.025	+0.01 - 0	Virgin PTFE Modified PTFE	600
0.05			1200
0.10	Thickness +10% - 0.00 Width +3.0% - 0.0% Length +2.0% - 0.0%	Virgin PTFE Modified PTFE Standard compounds	600 1000 1200 1500
0.15			
0.20			
0.25			
0.30			
0.35			
0.40			
0.50			
0.60			
0.80			
1			
1.5			
2			
2.5			
3			
4			
5			
6			

Additionally Materials available on request: modified PTFE, special compounds
1 or 2 sides etched

(1) According to ISO 13000 standard and to corporate standard specifications

High quality PTFE skived films

	Thickness (mm)	Tolerance ⁽²⁾	Standard Width ⁽¹⁾ (mm)
Skived films	from 0.025 to 0.5	Thickness: +10% - 0% Width/Length: +3.0% - 0.0%	600 1200 1500

Additionally Etching treatment
Application PCB, wire and cables, LCD, release films
Materials fluteck™ P1500, fluteck™ P1550, fluteck™ P 9800CS, fluteck™ P 9850CS

(1) Additional sizes available on request

(2) According to ISO 13000 standard and to corporate standard specification

Virgin PTFE skived films and tapes

Imperial sizes

Thickness (inch)	Thickness tolerance ⁽¹⁾ (inch)	Materials	Standard sizes (inch)	Tolerance ⁽¹⁾
.001"	+ .0003" - 0"	Virgin PTFE Modified PTFE	24" 36" 48"	Width +3% - 0% Length +3% - 0%
.002"				
.003"				
.004"	+ 10% - 0%	Virgin PTFE Modified PTFE Standard compounds	24" 36" 48" 60"	
.005"				
.008"				
.010"				
.015"				
.020"				
.031"				
.062"				
.093"				
.125"				
.187"				
.250"				

Additionally Materials available on request: modified PTFE, special compounds
1 or 2 sides etched

(1) According to ASTM D3308 standard and to corporate standard specification

High quality PTFE skived films

Imperial sizes

	Thickness (inch)	Tolerance ⁽²⁾	Standard Width ⁽¹⁾ (inch)
Skived films	from .001" to .02"	Thickness: +5% - 5% Width/Length: +3.0% - .0%	24" 36" 48" 60"

Additionally Etching treatment
Application PCB, wire and cables, LCD, release films
Materials fluteck™ P1500, fluteck™ P1550, fluteck™ P 9800CS, fluteck™ P 9850CS

(1) Additional sizes available on request

(2) According to ASTM D3308 standard and to corporate specification

PTFE sheets and tapes for tank-lining and chemical applications

Metric sizes

	Thickness (mm)	Tolerance ⁽²⁾	Standard Width ⁽¹⁾ (mm)
Skived sheets	from 1.00 to 5.00	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	600x600 1200x1200 1500x1500
Skived tapes	from 1.00 to 5.00	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	Width 600 900 1200 1500

Imperial sizes

	Thickness (inch)	Tolerance ⁽³⁾	Standard Width ⁽¹⁾ (inch)
Skived sheets	from .031" to .187"	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	24"x24" 36"x36" 48"x48" 60"x60"
Skived tapes	from .031" to .187"	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	Width 24" 36" 48" 60"

Additionally
Application
Materials

Etching treatment, roll length on request
Seals, flanges for tank lining; gaskets, piping components
fluteck™ P1500, fluteck™ P1550, fluteck™ P8001 CF

(1) Additional sizes available on request

(2) Metric sizes: according to ISO 13000 standard and to corporate standard specification. On request ±5%

(3) Imperial sizes: according to ASTM D3308 standard and internal to corporate specification

Expanded PTFE sheets

Metric sizes

Thickness (mm)	Tolerance ⁽¹⁾	Standard Sizes ⁽¹⁾ (mm)
0.5 1.0 1.5 2.0 3.0 4.0 5.0 6.0	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	1500x1500

Imperial sizes

Thickness (inch)	Tolerance ⁽²⁾	Standard Sizes (inch)
.031" .062" .093" .125" .187" .250"	Thickness: +10% - 0.0% Width/Length: +3.0% - 0.0%	60"x60"

Additionally
Materials
Notes

Other formats available on request
fluteck™ P EX100
Bi-axial orientation

(1) According to ISO 13000 standard and to corporate standard specification

(2) According to ASTM D3294 standard and to corporate standard specification

PTFE guide and wear strips

Metric sizes

	Thickness (mm)	Tolerance ⁽²⁾	Standard Width (mm)
Guide strips	from 1.00 to 4.76	Thickness: +10% - 0% Width/Length: +3.0% - 0.0%	from 3.0 to 40.0

Imperial sizes

	Thickness (inch)	Tolerance ⁽²⁾	Standard Width (inch)
Guide strips	from 1/32 " to 3/16"	Thickness: +10% - 0% Width/Length: +3.0% - 0.0%	from 1/8 " to 1 1/2"

Additionally

Chamfering 2 or 4 edges, knurkling 1 or 2 sides, etching treatment
Rolls, strips

Materials

fluteck™ P1500, fluteck™ P1550, fluteck™ P GL series, fluteck™ P BZ/BM series, fluteck™ P CG series

(1) According to ISO 13000 standard and to corporate standard specification

PTFE dimpled sheets & disks

Metric sizes

	Thickness ⁽²⁾ (mm)	Tolerance ⁽¹⁾ (mm)	Standard Sizes ⁽³⁾ (mm)
Dimpled sheets	4.5 5.0 6.0	Thickness: +0.3 - 0.0 Width/Length: +50 - 0.0	600x600 800x800 1000x1000 1200x1200
Dimpled disks	4.5 5.0 6.0	Thickness: +0.3 - 0.0 Width/Length: +50 - 0.0	ø 135 ø 208 ø 270 ø 310 ø 355 ø 410 ø 470 ø 495 ø 510 ø 550 ø 570 ø 620 ø 660 ø 760 ø 770 ø 780 ø 800 ø 880 ø 980 ø 1.040

Imperial sizes

	Thickness ⁽²⁾ (inch)	Tolerance ⁽¹⁾ (inch)	Standard Sizes ⁽³⁾ (inch)
Dimpled sheets	.187" .250"	Thickness: +.010" - .00" Width/Length: +2.00" - .00"	24"x24" 36"x36" 48"x48"
Dimpled disks	.187" .250"	Thickness: +.010" - .00" Width/Length: +2.00" - .00"	ø 5.250" ø 8.125" ø 10.625" ø 12.125" ø 13.875" ø 16.125" ø 18.500" ø 19.500" ø 20.000" ø 21.625" ø 22.375" ø 24.375" ø 26.000" ø 28.875" ø 30.250" ø 30.625" ø 31.500" ø 34.625" ø 38.500" ø 41.875"

Material fluteck™ P2010
On request modified PTFE, special compounds

(1) According to EN 1337-2 and according to AASHTO LRFD 18.4.3.1-1 and 18.8.2.6-1

(2) Additional thicknesses available on request

(3) Additional sizes and semi-disks available on request

PTFE isostatic molded tubes

Metric sizes

O.D. (mm)		I.D. (mm)					Tolerance ⁽¹⁾	Length (mm)
40.0	33.0	30.0	-	-	-	-	O.D. +6.0% - 0.0% I.D. - 6.0% +0.0% Length +2.0% - 0.0%	600
45.0	38.0	35.0	33.0	-	-	-		
48.0	40.0	38.0	35.0	33.0	-	-		
50.0	43.0	40.0	38.0	35.0	33.0	-		
53.0	45.0	43.0	40.0	38.0	35.0	-		
55.0	48.0	45.0	43.0	40.0	38.0	35.0		
58.0	50.0	48.0	45.0	43.0	40.0	38.0		
60.0	53.0	50.0	48.0	45.0	43.0	40.0		
63.0	55.0	53.0	50.0	48.0	45.0	43.0		
65.0	58.0	55.0	53.0	50.0	48.0	45.0		
68.0	60.0	58.0	55.0	53.0	50.0	48.0		
70.0	63.0	60.0	58.0	55.0	53.0	50.0		
73.0	65.0	63.0	60.0	58.0	55.0	53.0		
75.0	68.0	65.0	63.0	60.0	58.0	55.0		
78.0	70.0	68.0	65.0	63.0	60.0	58.0		
80.0	73.0	70.0	68.0	65.0	63.0	60.0		
83.0	75.0	73.0	70.0	68.0	65.0	63.0		
85.0	78.0	75.0	73.0	70.0	68.0	65.0		
88.0	80.0	78.0	75.0	73.0	70.0	68.0		
90.0	83.0	80.0	78.0	75.0	73.0	70.0		
93.0	85.0	83.0	80.0	78.0	75.0	73.0		
95.0	88.0	85.0	83.0	80.0	78.0	75.0		
98.0	90.0	88.0	85.0	83.0	80.0	78.0		
100.0	93.0	90.0	88.0	85.0	83.0	80.0		
103.0	95.0	93.0	90.0	88.0	85.0	83.0		
105.0	98.0	95.0	93.0	90.0	88.0	85.0		
108.0	100.0	98.0	95.0	93.0	-	-		
110.0	100.0	98.0	95.0	-	-	-		
115.0	105.0	100.0	95.0	-	-	-		
120.0	110.0	105.0	100.0	-	-	-		
125.0	115.0	110.0	105.0	-	-	-		

(1) According to ISO 13000 standard and to corporate standard specification

Thin wall PTFE tubes

Metric sizes

I.D. (mm)	Wall thickness (mm)	Standard length (m)
2.0	1	50 100
3.0	0.5	
4.0	1	
6.0	1	
8.0	1	
10.0	1	
12.0	1	
14.0	1	25

Additionally

More sizes available on request up to 80 mm

Sodium ammonia etching available on request

Materials

fluteck™ TW100, fluteck™ TW150, fluteck™ TW200, fluteck™ TW250

(1) According to ISO 13000 standard and to corporate standard specification

Technical data sheet

	Properties	Method	Units	fluteck™ P1000 Virgin PTFE Standard Grade	fluteck™ P1050 Modified PTFE Standard Grade	fluteck™ P1500 Virgin PTFE Premium Grade	fluteck™ P1550 Modified PTFE Premium Grade
Physical	Specific Gravity	ASTM D792	g/cm ³	2.13 - 2.19	2.13 - 2.18	2.13 - 2.19	2.13 - 2.18
	Water absorption - 24 hours	ASTM D570	%	0.01	0.01	0.01	0.01
Mechanical	Elongation at break	ASTM D4894	%	≥ 200	≥ 400	≥ 280	≥ 450
	Tensile strength	ASTM D4894	MPa	≥ 20	≥ 28	≥ 25	≥ 30
	Shore D hardness	ASTM D2240	Shore D	≥ 54	≥ 54	≥ 54	≥ 54
	Ball hardness	ASTM D785	MPa	≥ 23	≥ 23	≥ 23	≥ 23
	Compression strength at 1% deformation	ASTM D695	MPa	≥ 4	≥ 4	≥ 4	≥ 4
	Deformation under load (140 kg/cm ² for 24h at 23°C)	ASTM D621	%	10 - 13	9 - 12	10 - 13	9 - 12
	Permanent deformation (after 24h at 23°C)	ASTM D621	%	6 - 7.5	4.5 - 6	6 - 7.5	4.5 - 6
	Coefficient of static friction	ASTM D1894	-	0.08 - 0.10	0.08 - 0.10	0.08 - 0.10	0.08 - 0.10
	Coefficient of dynamic friction	ASTM D1894	-	0.06 - 0.08	0.06 - 0.08	0.06 - 0.08	0.06 - 0.08
	Wear factor K	ASTM D3702	-	2.9	2.9	2.9	2.9
Thermal	Wear coefficient		$\frac{\text{cm}^3 \text{ min}}{\text{kg m h}} \cdot 10^{-8}$	20000 - 25000	20000 - 25000	20000 - 25000	20000 - 25000
	Thermal conductivity	ASTM C177	W/m·K	0.34	0.24	0.34	0.24
	Flammability	UL94	-	V - 0	V - 0	V - 0	V - 0

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PTFE compounds

Filler	Product description	Properties	Color	Density (g/cm ³)	Elongation (%)	Hardness (Shore D)	Tensile strength
Glass fiber	fluteck™ P GL series	Improved wear resistance, compression strength, creep resistance, chemical resistance (except to alkalis and hydrofluoric acid). Good performance in oxidizing environments	white cream	2.130 - 2.290	≥ 180	≥ 63	≥ 18
Glass fiber combined with MoS ₂	fluteck™ P GM series	Superior hardness and wear resistance. Increased sliding properties	gray black	2.140 - 2.280	≥ 100	≥ 60	≥ 22
Glass fiber combined with graphite	fluteck™ P GG series						
Carbon	fluteck™ P CA series	Improved electrical and thermal conductivity, better resistance under load, low coefficient of friction, rapid dissipation of electrical charge, inertness and chemical resistance	black	2.030 - 2.190	≥ 100	≥ 62	≥ 30
Electro-graphitized carbon	fluteck™ P CS series						
Carbon graphite	fluteck™ P CG series	Improved electrical and thermal conductivity, better resistance under load, low coefficient of friction, improved wear resistance and low friction properties	black	2.070 - 2.190	≥ 100	≥ 62	≥ 20
Carbon fiber	fluteck™ P CF series	Improved lubricant properties in wet environments (dynamic applications). Resistance to hydrofluoric acids and strong bases (except oxidizing environments)	black	2.060 - 2.120	≥ 75	≥ 55	≥ 20
Graphite	fluteck™ P GR series	Improved wear resistance, decreased friction and increased sliding properties against soft metals, chemical inertness	black	2.120 - 2.180	≥ 60	≥ 60	≥ 20
Bronze	fluteck™ P BZ series	Improved compression strength, wear resistance, high thermal conductivity, resistance to abrasion, reduced chemical resistance	brown green	3.050 - 4.000	≥ 150	≥ 65	≥ 15
Bronze combined with MoS ₂	fluteck™ P BM series	Superior hardness and wear resistance. Increased sliding properties. Lower coefficient of friction than bronze filled	brown	3.050 - 3.900	≥ 150	≥ 65	≥ 18
Bronze combined with graphite	fluteck™ P BG series						
Molybdenum disulfide (MoS ₂)	fluteck™ P MS series	Increased properties of hardness and wear resistance. Increased sliding properties and decreased friction	blue	2.200 - 2.250	≥ 200	≥ 55	≥ 25
PEEK	fluteck™ P PK series	Increased thermal resistance, sliding properties, surface hardness. Superior properties in dynamic applications	light brown	1.800 - 1.930	≥ 10	≥ 65	≥ 13
Stainless steel	fluteck™ P IN series	Superior compression strength and wear resistance properties, high thermal conductivity, resistance to abrasion	gray	3.300 - 3.400	≥ 130	≥ 65	≥ 15
Aromatic polyester	fluteck™ P EK series	Improved low friction behavior and high wear resistance against all counterfaces	brick red brown	1.850 - 2.090	≥ 150	≥ 60	≥ 15
Calcium fluoride	fluteck™ P FC series	Improved wear resistance, compression strength, creep and chemical resistance. FDA approved	cream brown	2.230 - 2.290	≥ 130	≥ 62	≥ 15
Alumina	fluteck™ P AL series	Excellent chemical resistance, compression strength and chemical/thermal dimensional stability	cream	2.240 - 2.270	≥ 100	≥ 62	≥ 18
Ceramic	fluteck™ P CE series						

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Technical data sheets

	Properties	Method	Units	fluteck™ P1500 PTFE	fluteck™ K300 PEEK	fluteck™ C100 PCTFE	fluteck™ C200 ECTFE	fluteck™ F100 PFA	fluteck™ E200 FEP	fluteck™ E400 ETFE
Physical	Specific Gravity	ASTM D792	g/cm ³	2.130 - 2.190	1.30 - 1.32	2.10 - 2.16	1.62 - 1.68	2.13 - 2.18	2.12 - 2.16	1.72
	Water absorption - 24 hours	ASTM D570	%	0.01	0.1	< 0.01	< 0.10	< 0.03	< 0.01	< 0.01
	Mold shrinkage - along the flow	ASTM D955	%	1.50 - 2.00	1 - 1.5	1.50 - 2.00	2.5	4 - 5	3 - 5	2 - 3.5
Mechanical	Elongation at break	ASTM D638	%	≥ 280	≥ 10	40 - 150	≥ 200	≥ 250	≥ 300	≥ 200
	Tensile strength (23°C)	ASTM D638	MPa	> 25	≥ 95	31 - 45	40	> 23	25	> 35
	Flexural strength, at break	ASTM D790	MPa	no break	≥ 140	40 - 50	40	no break	no break	38
	Flexural modulus	ASTM D790	MPa	600 - 700	3800	1200	1500	500	600	1000
	Shore D hardness	ASTM D785	-	D54	D80	D80	D75	D60	D56	D65
	IZOD notched impact (23°C)	ASTM D256	J/m	161	≥ 85	150	no break	no break	no break	no break
	Coefficient of dynamic friction (vs. itself)	ASTM D1894	-	0.06 - 0.08	≤ 0.2	0.35	0.2	0.21	0.3	0.23
Thermal	Melting temperature (°F/°C)	ASTM D3418	(°F/°C)	621/327	644/340	410/210	432/222	582/305	500/260	518/270
	Max operating temperature (°F/°C)	-	(°F/°C)	500/260	572/300	302/150	302/150	500/260	400/204	302/150
	Flammability rating	UL 94	-	V - 0	V - 0	V - 0	V - 0	V - 0	V - 0	V - 0
	Heat deflection temperature (0.46 MPa)	ASTM D648	(°F/°C)	158-248/ 70-120	-	248-257/ 120-125	194-212/ 90-100	158-167/ 70-75	158/70	212-221/ 100-105
	Heat deflection temperature (1.8 MPa)	ASTM D648	(°F/°C)	113-132/ 45-55	302-320/ 150-160		145-163/ 63-73	113-132/ 45-55	118-140/ 48-60	158-194/ 70-90
	Min. short term service temperature	-	(°F/°C)	- 320/ - 196	- 148/ - 100	- 328/ - 200	- 148/ - 100	- 328/ - 200	- 328/ - 200	- 148/ - 100
Electrical	Dielectric constant, at 1KHz	ASTM D150	-	2.1	3.2	2.3	2.48	2	2.15	2.6
	Dielectric strength (23°C, 1.0 mm)	ASTM D149	KV/mm	≥ 30	≥ 22	32	30	33	35	30
	Dissipation factor, at 1KHz	ASTM D150	-	0.0001 - 0.0003	0.003	0.0012	0.0012	0.00082	0.00094	0.015
	Arc resistance (sec)	ASTM D495	sec	300	40	> 320	> 120	> 180	> 300	> 100
	Volume resistivity, at 50% RH	ASTM D257	[ohm*cm]	> 10 ¹⁸	> 10 ¹⁷	> 10 ¹⁷	> 10 ¹⁷	> 10 ¹⁸	> 10 ¹⁸	> 10 ¹⁷

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